



TSMC-01-167CD

January 22, 2004

To: Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Fr: George O. Saile, Reg. No. 19,572  
28 Davis Ave.  
Poughkeepsie, N.Y. 12603

Subject:

Serial No. 10/706,495 11/12/03

Ying-Lang Wang et al.

IMPROVED CMP PROCESS LEAVING NO  
RESIDUAL OXIDE LAYER OR SLURRY  
PARTICLES

#### INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation  
In An Application.

The following Patents and/or Publications are submitted to  
comply with the duty of disclosure under CFR 1.97-1.99 and  
37 CFR 1.56.

#### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being  
deposited with the United States Postal Service as first class  
mail in an envelope addressed to: Commissioner for Patents,  
P.O. Box 1450, Alexandria, VA 22313-1450, January 27, 2004.

Stephen B. Ackerman, Reg.# 37761

Signature/Date

 1/27/04

U.S. Patent 5,662,769 to Schonauer et al., "Chemical Solutions for Removing Metal-Compound Contaminants from Wafers After CMP and the Method of Wafer Cleaning," discloses a tungsten CMP process and post clean.

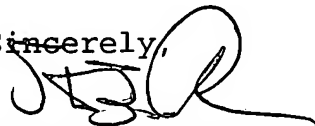
U.S. Patent 6,165,956 to Zhang et al., "Methods and Apparatus for Cleaning Semiconductor Substrates after Polishing of Copper Film," discloses a tungsten CMP together with NH<sub>4</sub>OH brushing in the background section.

U.S. Patent 5,968,280 to Ronay, "Method for Cleaning a Surface," discloses a poly-electrolyte post CMP clean.

U.S. Patent 5,868,863 to Hymes et al., "Method and Apparatus for Cleaning of Semiconductor Substrates Using Hydrofluoric Acid (HF)," discloses a cleaning method and apparatus using very dilute hydrofluoric acid (HF) for cleaning silicon wafers and semiconductor substrates.

U.S. Patent 6,207,630 to Vaartstra, "Processing Compositions and Methods of Using Same," discloses compositions and methods for using such compositions in the removal of contaminants from substrates and equipment.

Sincerely,

A handwritten signature in black ink, appearing to read 'SBA', is written over the word 'Sincerely,'.

Stephen B. Ackerman, Reg. #37761

Form PTO-1449

Doctor Hunter (Cpachar)

Application Number

TSMC-01-167CD

10/706,495

Applicant:

Applicant: Ying-Lang Wang et al.

Filing Date

11/12/03

Of our Art Unit

## INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(Use several sheets if necessary)

## U. S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Portion or Pages, Etc.)

[illegible]

EXHIBIT

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.